

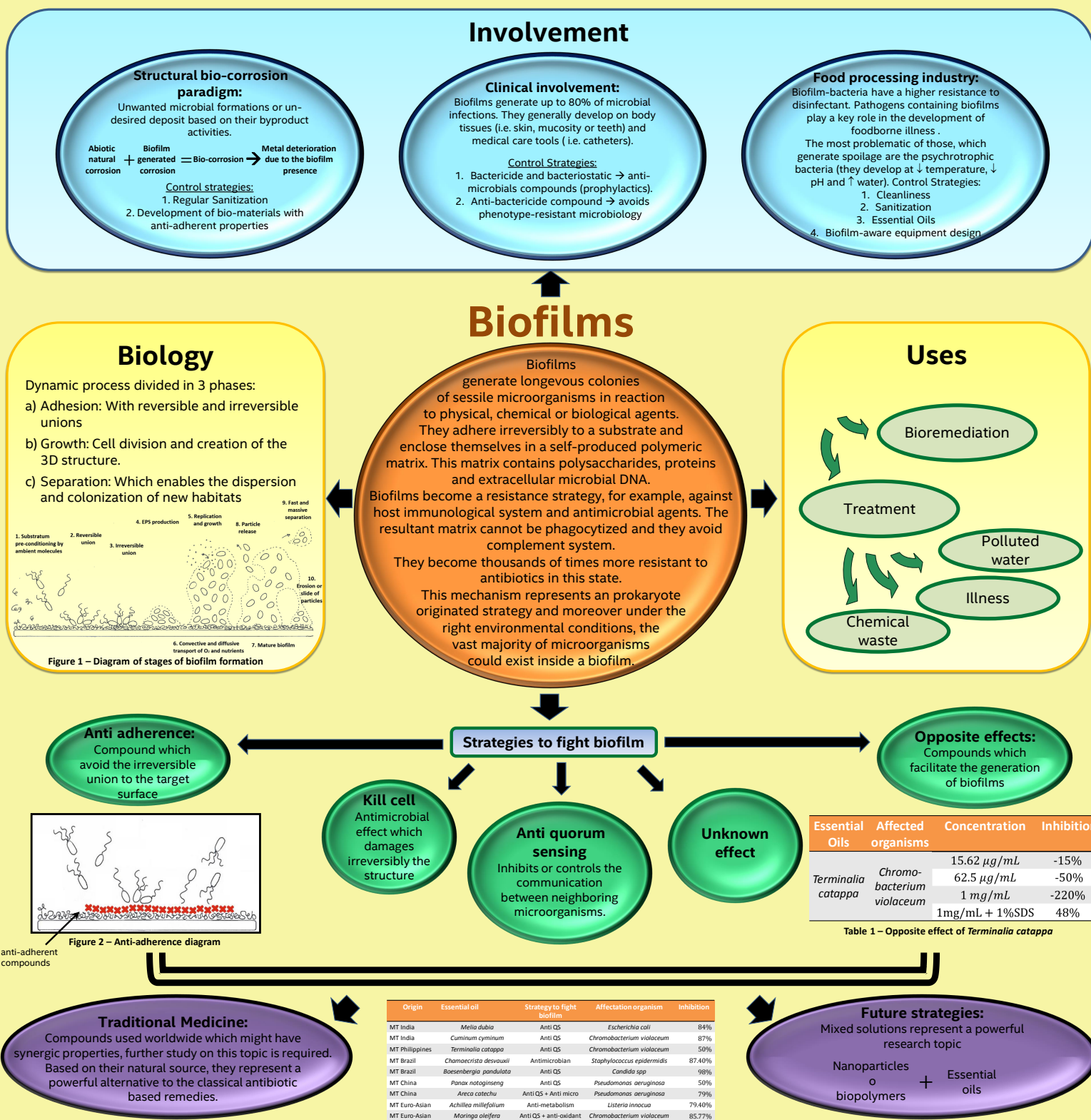
Essential Oils & Biofilms

Essential oils which inhibit the formation of biofilms

Núria Carreño Bautista de Lisboa. Degree in Biology. Universitat Autònoma de Barcelona. 2014/2015



Nowadays the excessive use of antibiotics and the extremely aggressive sanitizing treatments has results in the apparition of a biofilm resistant phenotypes. Due to that the scientific community has begun to research for alternatives to traditional biofilm removal techniques.



Conclusions:

- On the long term, the available solutions are not efficient enough.
- Worldwide traditional medicine seems to have found some more efficient compounds on their own.
- Mixed compounds showed some evidence to have a higher efficiency on inhibiting the biofilm creation.
- The study of the synergy between mixing current solutions and traditional medicine holds they key of the future of biofilm fight.

References:

Figure 1 and 2: Own Source
Table 1: Adaptation from Taggana, J. C., Quianco, J. P., Perono, R. M. G., Amor, E. C., & Rivera, W. L. - Tannin-rich fraction from *Terminalia catappa* inhibits quorum sensing (QS) in *Chromobacterium violaceum* and the QS-controlled biofilm maturation and LasA staphylococcal activity in *Pseudomonas aeruginosa*. "Journal of ethnopharmacology, 2011.
Table 2: Collection of research articles. Check references in the manuscript.